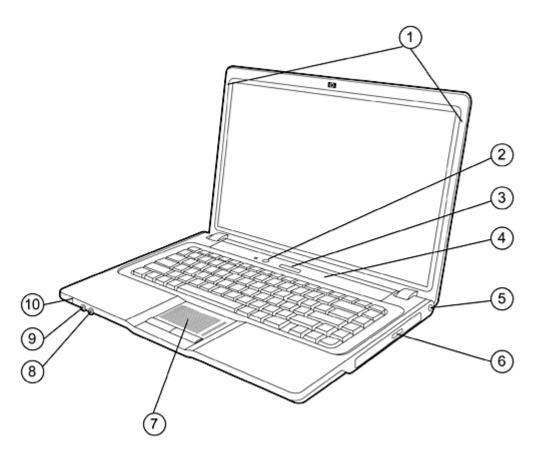
Overview

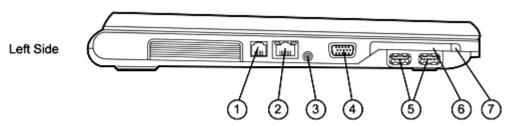
HP recommends Windows Vista® Business



- 1. Dual-band Wireless LAN Antennas*
- 2. Wireless On/Off Button with LED*
- 3. Power Button with LED
- 4. Speaker
- 5. Kensington Lock Slot
- * Select models only

- 6. Optical Drive
- 7. Touchpad with Scroll Zone
- 8. Microphone Jack
- 9. Headphone Jack
- 10. Battery LED

Overview



- 1. RJ-11 Port (Modem)
- 2. RJ-45 Port (NIC)
- 3. DC Power Connector
- 4. VGA/External Monitor Connector

- 5. 2 USB 2.0 Ports
- 6. PC Card Slot
- 7. PC Card Eject Button

At A Glance

- Genuine Windows Vista Business 32,
 Genuine Windows Vista Home Basic 32
- Genuine Windows XP Professional supported SuSe Linux Enterprise Desktop 10 certified
- Intel® Core™ 2 Duo processor or Intel Celeron® processor
- 15.4-inch WXGA BrightView Display
- Sleek industrial design starting at 6 lb/2.7 kg and 1.26 inch/31.9 mm thin at front
- Mobile Intel 945GME Express Chipset or Mobile Intel 940GME Express Chipset
- Supports up to 2 GB of DDR2 SDRAM
- 120/160-GB 5400 rpm SATA hard drive
- Intel Graphics Media Accelerator 950, up to 224-MB shared system memory
- Integrated 802.11 a/b/g or b/g wireless LAN module*
- Intel Centrino® Duo processor technology*
- Intel 82562GT 10/100 Network Connection
- Touchpad with scroll zone



^{*} Select models only

Select Models

HP 530 KH528AT#ABA

Smart Buy

Processor Intel Celeron Processor 530 (1.73-GHz, 533-MHz FSB, 1-MB L2 cache)¹

Operating System Genuine Windows Vista Home Basic 32
Chipset Mobile Intel 940GME Express Chipset

System Memory 1024-MB 533/667-MHz DDR2 SDRAM in one slot

Two SODIMM slots; supported memory 2048 MB²

Operates at a maximum of 533-MHz with 667-MHz memory

Hard Drive 120-GB³ 5400 rpm SMART SATA

Removable Media DVD+/-RW SuperMulti DL Drive

Display 15.4-inch WXGA BrightView (1280 x 800 resolution)

VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower

resolutions at up to 100 Hz⁴

Graphics Intel Graphics Media Accelerator 950, up to 224-MB shared system memory

Audio Conexant CX20549 Integrated speaker

Stereo headphone/line out

Microphone in

Communications Intel 82562GT 10/100 Network Connection

Conexant CX20548-11 56K modem⁵

Integrated Wireless Broadcom WMIB184G 802.11b/g

Pointing Device Touchpad with scroll zone, two soft-touch pick buttons

Battery 4-cell (32 WHr) Lithium-Ion
Power External 65W adapter

Warranty 1/1/0

HP 530

FH553AT#ABA Smart Buy Processor Intel Core 2 Duo Processor T5200 (1.6-GHz, 533-MHz FSB, 2-MB L2

cache)1

Intel Centrino Duo processor technology

Audio

Enabled

Operating System Genuine Windows Vista⁶ Business 32
Chipset Mobile Intel 945GME Express Chipset

System Memory 1024-MB 533/667-MHz DDR2 SDRAM in one slot

Two SODIMM slots; supported memory 2048 MB²

Operates at a maximum of 533-MHz with 667-MHz memory

Hard Drive 160-GB³ 5400 rpm SMART SATA

Removable Media DVD+/-RW SuperMulti DL Drive

Display 15.4-inch WXGA BrightView (1280 x 800 resolution) VGA port supports

resolutions up to 2048 x 1536 at 75 Hz, and lower resolutions at up to 100

 Hz^4

Graphics Intel Graphics Media Accelerator 950, up to 224-MB shared system memory

Integrated speaker

Stereo headphone/line out

Conexant CX20549

Microphone in



Select Models

Communications Intel 82562GT 10/100 Network Connection

Conexant CX20548-11 56K modem⁵

Integrated Wireless Intel PRO/Wireless 3945ABG Network Connection 802.11a/b/g

Touchpad with scroll zone, two soft-touch pick buttons Pointing Device

4-cell (32 WHr) Lithium-Ion **Battery** External 65W adapter Power

Warranty 1/1/0

HP 530

FH554AT#ABA Smart Buy

Processor Intel Core 2 Duo Processor T5200 (1.6-GHz, 553-MHz FSB, 2-MB L2

cache)1

Intel Centrino Duo

processor technology

Enabled

Genuine Windows Vista Business 32 Operating System Chipset Mobile Intel 945GME Express Chipset

2048-MB 533/667-MHz DDR2 SDRAM in two slots System Memory

Two SODIMM slots; supported memory 2048 MB²

Operates at a maximum of 533-MHz with 667-MHz memory

Hard Drive 160-GB³ 5400 rpm SMART SATA Removable Media DVD+/-RW SuperMulti DL Drive

15.4-inch WXGA BrightView (1280 x 800 resolution) Display

VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower

resolutions at up to 100 Hz⁴

Graphics Intel Graphics Media Accelerator 950, up to 224-MB shared system memory

Audio Conexant CX20549

Integrated speaker

Stereo headphone/line out

Microphone in

Intel 82562GT 10/100 Network Connection Communications

Conexant CX20548-11 56K modem⁵

Intel PRO/Wireless 3945ABG Network Connection 802.11a/b/g Integrated Wireless

Pointing Device Touchpad with scroll zone, two soft-touch pick buttons

4-cell (32 WHr) Lithium-Ion **Battery**

External 65W adapter Power

Warranty 1/1/0



Select Models

HP 530

FH526AA#ABA Regional Processor Intel Celeron Processor 530 (1.73-GHz, 533-MHz FSB, 1-MB L2 cache)¹

Operating System Genuine Windows Vista Home Basic 32
Chipset Mobile Intel 940GME Express Chipset

System Memory 1024-MB 533/667-MHz DDR2 SDRAM in one slot

Two SODIMM slots; supported memory 2048 MB²

Operates at a maximum of 533-MHz with 667-MHz memory

Hard Drive 120-GB³ 5400 rpm SMART SATA

Removable Media DVD+/-RW SuperMulti DL Drive

Display 15.4-inch WXGA BrightView (1280 x 800 resolution)

VGA port supports resolutions up to 2048 x 1536 at 75 Hz, and lower

resolutions at up to 100 Hz⁴

Graphics Intel Graphics Media Accelerator 950, up to 224-MB shared system memory

Audio Conexant CX20549 Integrated speaker

Stereo headphone/line out

Microphone in

Communications Intel 82562GT 10/100 Network Connection

Conexant CX20548-11 56K modem⁵

Integrated Wireless Broadcom WMIB184G 802.11b/g

Pointing Device Touchpad with scroll zone, two soft-touch pick buttons

Battery 4-cell (32 WHr) Lithium-Ion
Power External 65W adapter

Warranty 1/1/0

HP 530

FH522AA#ABA

Regional

Processor Intel Core 2 Duo Processor T5200 (1.6-GHz, 553-MHz FSB, 2-MB L2

cache)¹ Enabled

Intel Centrino Duo

processor technology

Operating System Genuine Windows Vista Business 32
Chipset Mobile Intel 945GME Express Chipset

System Memory 1024-MB 533/667-MHz DDR2 SDRAM in one slot Two SODIMM slots; supported memory 2048 MB²

Operates at a maximum of 533-MHz with 667-MHz memory

Hard Drive 120-GB³ 5400 rpm SMART SATA

Removable Media DVD+/-RW SuperMulti DL Drive

Display 15.4-inch WXGA BrightView (1280 x 800 resolution)

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Audio Conexant CX20549 Integrated speaker

Stereo headphone/line out

Microphone in

Communications Intel 82562GT 10/100 Network Connection

Conexant CX20548-11 56K modem⁵



Select Models

Intel PRO/Wireless 3945ABG Network Connection 802.11a/b/g

Pointing Device Touchpad with scroll zone, two soft-touch pick buttons

Battery 4-cell (32 WHr) Lithium-lon
Power External 65W adapter

Warranty 1/1/0

- 1. Intel's numbering system is not a measurement of higher performance. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 2. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility.
- 3. GB = 1 billion bytes. Actual available capacity is less. Up to 10-GB of memory is reserved for system recovery software.
- 4. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 5. Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.
- 6. Certain Windows Vista product features require advanced or additional hardware. See: http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and http://www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: http://www.windowsvista.com/upgradeadvisor.



Standard Features

Keyboard

The 101/102-key compatible keyboard features an industry standard, full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, and 12 function keys. International key layouts are available. Other features include an integrated numeric keypad, hotkeys for instant access to power conservation, brightness, and other features, 19-mm x 19-mm key pitch (center-to-center spacing), 2.5-mm stroke, comfort-dished keycaps, and bright key legends for improved visibility in low light conditions.

_		\sim 1	CI .
Exp	ansion	(ard	Stole

One Type I/II PC Card

Supports 32-bit CardBus and 16-bit PC Cards

Interfaces

PC Card Slot

slot

One Type I/II

External Monitor External Microphone One - VGA

Headphone/Line out

One One

Power Connector RJ-11 (Modem)

One

RJ-45 (NIC)

One

USB 2.0

One

LED Status Indicators

Two Five

Software

Preinstalled Software with Adobe Acrobat Reader Windows Vista

HP Backup and Recovery Manager HP Help and Support Center

Roxio Creator Basic 9

Synaptics Touchpad Driver

Symantec Norton Internet Security 2007 with complimentary 60-day live

update

Intervideo WinDVD – DVD Player

HP Backup and Recovery Manager

Each unit is shipped with HP Backup and Recovery Manager. HP Backup and Recovery Manager can provide data and system file protection for HP business PCs to enable fast recovery if the system becomes corrupted or if important information is accidentally deleted. HP Backup and Recovery Manager can perform scheduled or manual backups of the entire drive or individual files and folders. Up to 8GB of the hard drive is reserved for the system recovery software. HP Backup and Recovery Manager can also create software recovery CDs or DVDs (requires optional hardware).

SMBIOS Version 2.3

System Management BIOS, previously known as DMI BIOS, is used to store system management information.



Standard Features

Security

Standard Features Configuration Control Hardware

Memory Change Alert Ownership Tag Setup Password Power-On Password

DriveLock

Kensington Lock Slot

For more information on HP security solutions refer to http://www.hp.com/go/security.

Power Supply

External 65-watt AC adapter, 6-foot (1.8-meter) power cord included. Total length including External AC adapter is 12 feet (3.66 meter).

HP Fast Charge*

* Fast Charge recharges your battery up to 90% within 90 minutes when the system is off.

Battery

4-cell (32 WHr) high capacity Lithium-Ion

Power Conservation

Hibernation Standby

ACPI compliance

Service and Support

HP Services offers limited 1-year warranty options depending on country;

1-year limited warranty on primary battery. On-site service and warranty upgrades are also available.

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp.



Options

Memory	1024-MB 667-MHz DDR2 SDRAM* * Models with Mobile Intel 940GME Express Chipset or processors with 533-MHz FSE use this memory at a maximum memory speed of 533-MHz.	
Other Storage	HP USB Diskette Drive	DC361B
Power	65W Smart AC Adapter	ED494AA#ABA
	Primary 8-cell Battery	RW557AA
Carrying Cases	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather case	RR316AA
	HP Deluxe Nylon Backpack	RR317AA
Security	HP/Kensington Cable Lock	PC766A
Input/Output Devices	USB Keyboard & Mouse Bundle	RC465AA#ABA
	HP USB Optical Travel Mouse	RH304AA



Technical Specifications

System Unit Dimensions (HxWxD) 1.26 (at front) x 14.09 x 10.12 in

35.9 (at front) x 357.9 x 227.0 mm

Weight Starting at 6.0 lb (2.7 kg)

NOTE: Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 4-cell battery, 80-GB hard drive, 512-MB memory, and optical drive. Weight varies by configuration and components.

Stand-Alone Power Normal Operating 18.5 V

Requirements Voltage

Average Operating Power 12.5 W Max Operating Power < 65 W

Temperature Operating 32° to 95° F (0° to 35° C) (not writing optical)

41° to 95° F (5° to 35° C) (writing optical)

Non-operating -4° to 140° F (-20° to 60° C)

Relative Humidity Operating 10% to 90%, non-condensing

Non-operating 5% to 95%, 101.6° F (38.7° C) maximum wet

bulb temperature

Shock Operating 125 G, 2 ms, half-sine

Non-operating 200 G, 2 ms, half-sine

Random Vibration Operating 0.75 grms

Non-operating 1.50 grms

Altitude Operating -50 to 10,000 ft (-15.24 to 3,048 m) (unpressurized) Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

Industry StandardULYesCertificationsFCC ComplianceYes

CCC Yes
CE Marking Compliance Yes
BNCI or BELLIS Yes

CIT Yes
GOST Yes
Saudi Arabian Yes

Compliance (ICCP)

SABS Yes UKRSERTCOMPUTER Yes



Technical Specifications

65W AC Adapter Dimensions 4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)

 Weight
 0.62 lb (280 g)

 Input
 100 to 240 VAC

Input Efficiency 83% min at 115 VAC

Input frequency range 47 to 63 Hz

Input AC current 1.7 A at 90 VAC, 0.85 A at 180 VAC

Output Output power 65W 65W

DC output 18.5V

Hold-up time 5 msec at 115 VAC input

Output current limit <5A, Over voltage protection- 29V max

automatic shutdown

Connector 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating temperature 32° to 104° F (0° to 40° C) Non-operating (storage) -4° to 149° F (-20° to 65° C)

temperature

Altitude 0 to 10,000 ft (0 to 3,048 m)

Humidity 20% to 80% Storage Humidity 10% to 90%

EMI and Safety Certifications CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC950, EN60950, UL1950, Class2, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22

Class B, CCIB, NOM-1 NYCE; MTBF - over 200,000 hours at 25°C

ambient condition.

32 WHr Primary 4-Cell

Battery

Dimensions $(H \times W \times L)$

0.8 x 1.6 x 10.6 in (2.4 x 4.0 x 26.9 cm)

Weight 0.50 lb (0.225 kg)
Cells/Type 4-cell Lithium-lon

Energy Voltage 14.4 V

Watt-hour Capacity 32Wh Amp-hour Capacity 2.2Ah

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C)

Non-operating -4° to 140° F (-20° to 60° C)

Battery Re-Charge Time System in OFF mode or 2.5 hours

Standby

System ON 3 to 5 hours (depending on system power

consumption)

HP Fast Charge Charges the battery up to 90% within 1.5 hours

when system is OFF

Technical Specifications

15.4-inch WXGA BrightView **Active Area** (W \times H) 13.0 \times 8.1 in (33.1 \times 20.7 cm)

Diagonal Size 15.4 in (39.1 cm)

Surface Treatment BrightView
Contrast Ratio 300:1 (typical)

Refresh Rate 60 Hz

Brightness 200 nit (typical)

Pixel Resolution Pitch 0.259 mm

Format 1280 x 800 Configuration RGB stripe

Backlight CCFL **PPI** 98

Viewing Angle $\pm 30^{\circ}$ Horizontal, $\pm 10^{\circ}$ Vertical (minimum)

Hard Drives

160-GB 5400 rpm SATA Drive Weight 0.22 lb (101 g)

Capacity 160 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

 Interface
 ATA-7 / SATA 1.0a

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Seek TimeSingle Track3 ms(typical reads, including settling)Average13 ms

Maximum 24 ms

Rotational Speed 5400 rpm Logical Blocks 312,581,808

Operating Temperature 41° to 131° F (5° to 55° C)

Features ATA Security

Technical Specifications

120-GB 5400 rpm SATA Drive Weight 0.22 lb (101 g)

Capacity 120 GB

 Height
 0.37 in (9.5 mm)

 Width
 2.75 in (70 mm)

 Interface
 ATA-7 / SATA 1.0a

Transfer Rate Synchronous (maximum) 100 MB/s (Drive Capability)

Seek TimeSingle Track3 ms(typical reads, including settling)Average13 msMaximum24 ms

Rotational Speed 5400 rpm Logical Blocks 234,441,648

Operating Temperature 41° to 131° F (5° to 55° C)

Features ATA Security

Removable Storage Drives - Fixed Bay

DVD+/-RW SuperMulti	Access Times	Random	<175 ms CD
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DL Drive <230 ms DVD

Max Data Transfer Rate 24X CD-ROM 3,600 KB/s

8X DVD 10,800 KB/s 24X CD-R 3,600 KB/s 10X CD-RW 1,500 KB/s 8X DVD+R 10,800 KB/s 4X DVD+RW 5,400 KB/s 8X DVD-R 10,800 KB/s 4X DVD-RW 5,400 KB/s 2.4X DVD + R(9)2,700 KB/s 5X DVD-RAM 6,750 KB/s

Transfer Mode Multiword DMA Mode

Interface EIDE

Supported Media (read) CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED

MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R,

DVD+RW, DVD-RAM

8.5 GB

Supported Media (write) CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM

Max Media Capacity

(read)

Max Media Capacity 8.5 GB

(write)

Transport Tray Loading



Technical Specifications

Audio

Hardware Implementation Conexant CX20549

Full Duplex Yes
Sound Blaster Pro Yes

compatible

Microphone Jack
Headphone/Line Out

Jack

Mono Stereo

Audio Output Quality Frequency Response 20 Hz – 20 kHz

Signal to Noise Ratio >85 dB

Total Harmonic Distortion 0.02%

Noise Floor -110 dB

Play/Record Sampling 8 kHz- 48 kHz

Rate(s)

DAC 16, 18, or 20-bit ADC 16, 18, or 20-bit

Internal Speaker Power Rating 1.5 Watts

Impedance 4 Ohms

Communications

Network Connection

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-

30)

Auto-Negotiation (Automatic Speed and Duplex Selection)
Full Duplex and Half Duplex operation at 10 and 100 Mbit/s
IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

NOTE: Auto MDI/MDI-X is not supported.

Power Management ACPI compliant -- multiple power modes
Performance Features TCP / IP / UDP Checksum Offload

Manageability Boot-from-LAN using PXE 2.1

NOTE: Wake-on-LAN and Boot-from-LAN using RPL are not supported.

NIC Device Driver Name Intel 82562 Network Internet Connection

Drivers Available Windows Vista

Technical Specifications

Conexant CX20548 56K Form Factor

Modem

Power Management

Support

APM Revision 1.2, ACPI

Integrated on system board

Approvals/ Certifications UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE

Mark, Other Countries

Data Mode Capabilities V.92 data

V.8bis V.80

V44, V.42bis, MNP5 (Compression) V.42 (LAPM, MNP2-4) (Error Correction)

Optional symbol rates:

2800, 3429

Asymmetric Symbol rates

Synchronous primary channel data signaling rates:

3600, 31200

Automatic rate re-negotiation

V.34 V.32bis V.32 V.23 V.22bis V.22 V.21 Bell 212A Bell 103J

Fax Mode Capabilities TIA/EIA-578-B (Class 1)

T.30, T.4 (Group 3)

V.17V.29 V.27ter

V.21 Channel 2

Command Set V.250 (Partial)

TIA-602

Identification: +GMI, +GMM, +GMR Port control: +IPR, +ICF, +IFC, +ILRR

Modulation: +MS, +MR, +MA

Error control: +ES, +ER, +EB, +ESR, +ETBM

Data compression: +DS, +DR

V.251

Intel PRO/Wireless 3945ABG Network Connection

Wireless LAN Standards IEEE 802.11a

> IEEE 802.11b IEEE 802.11g

Interoperability Wi-Fi certified

Cisco Compatible Extensions Program compliant with Microsoft Windows

2000 and XP (details at http://www.hp.com/go/notebooks/WLAN)

2.4 GHz Frequency Band



Technical Specifications

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM

Security¹ Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES,

802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-

MSCHAPv2, LEAP, EAP-FAST, EAP-SIM.

Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program

Version 4).

Sub-channels Multinational support with frequency bands and channels compliant to local

regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

Network Architecture

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power (for CKK)² 15 dBm Output Power (for OFDM; 15 dBm

power varies by data

rate)2

Power Consumption Transmit: 1.8 Watts (max)

> Receive: 1.4 Watts (max) Idle mode³: 150 mW (nominal) Sleep mode: 30 mW (max)

ACPI compliant power management Power Management

802.11 compliant power saving mode

Receiver Sensitivity⁴ 54 Mbps: -72 dBm, 11 Mbps: -88 dBm, 1 Mbps: -97 dBm

Antenna Connections 2 U.FL type connectors, 50 ohm nominal impedance

Range 802.11 a - Typical 600 feet - Outdoor Open Area

> (@6 Mbps) 150 feet - Indoor, Office environment 802.11 b - Typical 1200 feet - Outdoor Open Area 300 feet - Indoor, Office environment (@1 Mbps) 802.11 g - Typical 1200 feet - Outdoor Open Area 300 feet - Indoor, Office environment

(@1 Mbps)

Form Factor PCI-Express MiniCard

Weight 0.013 lb (6 g)

Dimensions 0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)

Operating Voltage 3.3V + / - 9%, 1.5V + / - 5%

Temperature 32° to 176° F (0° to 80° C) Operating

> -40° to 176° F (-40° to 80° C) Non-operating

Humidity 10% to 90% (non-condensing) Operating

> Non-operating 5% to 95% (non-condensing)

Altitude 0 to 10,000 ft (3,048 m) Operating

Non-operating 0 to 50,000 ft (15,240 m)

Technical Specifications

Configuration Utility⁵

Microsoft Windows 2000 or XP Choice of Configuration Utility:

- Microsoft Windows XP Wireless Network Connection Manager
- Intel PROSet for Microsoft Windows 2000 or XP (required for Cisco Compatible Extensions support)

Microsoft Windows Vista

Microsoft Windows Vista Wireless Network Connection Manager

LED Activity

LED Off - Radio OFF; Solid LED On - Radio ON

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. In Power Save Polling mode.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
- WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows 2000 or XP. WLAN may also be compatible with certain third-party software supplicants.

Broadcom WMIB184G 802.11b/g WiFi Adapter Wireless LAN Standards IEEE 802.11b

IEEE 802.11g

Interoperability Wi-Fi certified

Cisco Compatible Extensions Program compliant with Microsoft Windows 2000 and XP (details at http://www.hp.com/go/notebooks/WLAN)

Frequency Band 2.4 GHz

Data Rates 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

Modulation Direct Sequence Spread Spectrum

DBPSK, DQPSK, CCK, OFDM

Security¹ Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES,

802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-

MSCHAPv2, LEAP, EAP-FAST, EAP-SIM.

Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program

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Sub-channels Multinational support with frequency bands and channels compliant to local

regulations.

Media Access Protocol CSMA/CA (Collision Avoidance) with ACK

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power (for CKK)² 17.5 dBm Output Power (for OFDM; 15 dBm

power varies by data

rate)2



Technical Specifications

Power Consumption Transmit: 2.0 W (max)

Receive: 1.5 W (max)

Idle mode³: 390 mW (nominal) Sleep mode: 20 mW (max)

Power Management ACPI compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴ 54 Mbps: -72 dBm, 11 Mbps: -88 dBm , 1 Mbps: -97 dBm

Antenna type High efficiency dual band antenna with spatial diversity, mounted in the

display enclosure

Range 802.11 b – Typical 1200 feet – Outdoor Open Area

(@1 Mbps) 300 feet – Indoor, Office environment

802.11 g – Typical 1200 feet – Outdoor Open Area (@1 Mbps) 300 feet – Indoor, Office environment

Form Factor PCI-Express MiniCard

Weight 0.026 lb (12 g)

Dimensions 0.19 x 1.2 x 2.0 in (4.75 x 29.85 x 50.8 mm)

Operating Voltage 3.3v +/- 10%

Temperature Operating 32° to 176° F (0° to 80° C)

Non-operating -40° to 176° F (-40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

Configuration Utility⁵ Microsoft Windows 2000 or XP

Choice of Configuration Utility:

- Microsoft Windows XP Wireless Network Connection Manager
- Broadcom Wireless Configuration Utility (required for Cisco Compatible Extensions support)

Microsoft Windows Vista

Microsoft Windows Vista Wireless Network Connection Manager

LED Activity

LED Off – Radio OFF; Solid LED On – Radio ON

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. In Power Save Polling mode.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
- WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows 2000 or XP. WLAN may also be compatible with certain third-party software supplicants.



Technical Specifications

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